INDEX

Acetaldehyde, effect of, on fermentation of glucose and fructose in presence of phosphate and arsenate (Harden and Henley) 175
ACTON, H. W. and KING, H. The nephelometric estimation of quinine in blood 53
ADAIR, G. S. *see* STILES, W.
ADAM, N. K. Note on the oxygen consumption of amphibian muscle and nerve 358
Amino-acids, permeability of red corpuscles for (Kozawa and Miyamoto) 167
Amino-acids, separation from products of hydrolysis of proteins (Buston and Schryver) 636
Antiberiberi properties of sun-dried vegetables (Shorten and Ray) 274
Antineuritic factor, differential dialysis of (Zilva and Miura) 422
Antiscorbutic effect of milk and orange-juice together (Wright) 695
Antiscorbutic factor, differential dialysis of (Zilva and Miura) 422
Antiscorbutic properties of concentrated fruit juices (Harden and Robison) 521
Antiscorbutic properties of sun-dried vegetables (Shorten and Ray) 274
Antiscorbutic value of dried milk (Jephcott and Bacharach) 129
Antiscorbutic value of full cream sweetened condensed milk for monkeys (Hume) 163
ATKINS, W. R. G. *see* JAMESON, A. P.
Autoxidisable constituent of cell (Hopkins) 286

BACHARACH, A. L. *see* JEPHCOTT, H.
Bacteria, aerobic decomposition of tryptophan and tyrosine by (Raistrick and Clark) 76
Bacteria, cycloclastic power of (Raistrick and Clark) 76
Bactericidal action of quinones (Morgan and Cooper) 587
Barcroft's blood-gas apparatus, theory of (Parsons) 202
BARRATT, J. O. W. The action of sodium hydroxide upon coagulation of fibrinogen 4
Beriberi, avian, glyoxalase in (Findlay) 104
Blood, coagulation of, physico-chemical aspects of (Pickering and Hewitt) 710
Blood, human, nature of ordinary substance in (Cooper and Walker) 415
Blood, mammalian, occurrence of maltase in (Compton) 681
Blood, non-protein nitrogen in, micro-estimation of (Kennaway) 510
Blood sugar, estimation of (Ponder and Howie) 171
Blood sugar, Lewis-Benedict method of estimation of (Guy) 575
Blood-gas apparatus, Barcroft's, theory of (Parsons) 202
Bone tissue of kittens, effect of diet deficient in animal fat on (Tozer) 28
BRADFORD, S. C. On the theory of gels 553
BRAHMACHARI, U. N. and SEN, P. Some observations on the haemolytic action of certain quinine salts on the erythrocytes of different individuals and on the resistance of newly formed red corpuscles to haemolysis under the influence of distilled water 463
Bran, wheat, as a source of vitamins A and B (Stammers) 489
Buffer solutions, action of salts and non-electrolytes upon (Haynes) 440
BUSTON, H. W. and SCHRYVER, S. B. A method for the separation of amino-acids from the products of hydrolysis of proteins and other sources. (Preliminary communication) 636
Butter, factors influencing value of, as source of vitamin A (Drummond, Coward and Watson) 540

Calcium, excretion of, influence of free fatty acids in intestinal contents on (Telfer) 347
Calcium oxalate, precipitated, microscopic appearance and opacity of suspensions of (Holker) 232
CAMPBELL, J. A. and WEBSTER, T. A. Day and night urine during complete rest, laboratory routine, light muscular work and oxygen administration 660
Carbohydrate, interconversion of, and lactic acid in muscle (Foster and Moyle) 672
Carbon monoxide, production of, from urea (Hurtley) 11
Carnosine, colorimetric estimation of (Clifford) 400
Carnosine, distribution of, in animal kingdom (Clifford) 725
Carnosine, estimation of, in muscle extract (Hunter) 689
Carrageen, occurrence of ethereal sulphates in (Haas) 469
Caseinogen, digestion of, by trypsin (Edie) 498
Cell, autoxidisable constituent of (Hopkins) 286
Cellular multiplication (Robertson) 595, 612
Cell-walls of plants, chemistry of (Clayson, Norris and Schryver) 643
CHIBNALL, A. C. and SCHRYVER, S. B. Investigations on the nitrogenous metabolism of the higher plants. Part I. The isolation of proteins from leaves 60
Choleic acid in a human enterolith (Raper) 49
Cholesterol, estimation of, colorimetric, in tissue fats, source of error in (Gardner and Fox) 376
Cholesterol, estimation of, critical study of methods of (Gardner and Williams) 363
Chondrus crispus, occurrence of ethereal sulphates in (Haas) 469
CLARK, A. B. *see* RAISTRICK, H.
CLAYSON, D. H. F., NORRIS, F. W. and SCHRYVER, S. B. The pectic substances of plants. Part II. A preliminary investigation of the chemistry of the cell-walls of plants 643

INDEX

Acetaldehyde, effect of, on fermentation of glucose and fructose in presence of phosphate and arsenate (Harden and Henley) 175
ACTON, H. W. and KING, H. The nephelometric estimation of quinine in blood 53
ADAIR, G. S. *see* STILES, W.
ADAM, N. K. Note on the oxygen consumption of amphibian muscle and nerve 358
Amino-acids, permeability of red corpuscles for (Kozawa and Miyamoto) 167
Amino-acids, separation from products of hydrolysis of proteins (Buston and Schryver) 636
Antiberiberi properties of sun-dried vegetables (Shorten and Ray) 274
Antineuritic factor, differential dialysis of (Zilva and Miura) 422
Antiscorbutic effect of milk and orange-juice together (Wright) 695
Antiscorbutic factor, differential dialysis of (Zilva and Miura) 422
Antiscorbutic properties of concentrated fruit juices (Harden and Robison) 521
Antiscorbutic properties of sun-dried vegetables (Shorten and Ray) 274
Antiscorbutic value of dried milk (Jephcott and Bacharach) 129
Antiscorbutic value of full cream sweetened condensed milk for monkeys (Hume) 163
ATKINS, W. R. G. *see* JAMESON, A. P.
Autoxidisable constituent of cell (Hopkins) 286

BACHARACH, A. L. *see* JEPHCOTT, H.
Bacteria, aerobic decomposition of tryptophan and tyrosine by (Raistrick and Clark) 76
Bacteria, cycloclastic power of (Raistrick and Clark) 76
Bactericidal action of quinones (Morgan and Cooper) 587
Barcroft's blood-gas apparatus, theory of (Parsons) 202
BARRATT, J. O. W. The action of sodium hydroxide upon coagulation of fibrinogen 4
Beriberi, avian, glyoxalase in (Findlay) 104
Blood, coagulation of, physico-chemical aspects of (Pickering and Hewitt) 710
Blood, human, nature of ordinary substance in (Cooper and Walker) 415
Blood, mammalian, occurrence of maltase in (Compton) 681
Blood, non-protein nitrogen in, micro-estimation of (Kennaway) 510
Blood sugar, estimation of (Ponder and Howie) 171
Blood sugar, Lewis-Benedict method of estimation of (Guy) 575
Blood-gas apparatus, Barcroft's, theory of (Parsons) 202
Bone tissue of kittens, effect of diet deficient in animal fat on (Tozer) 28
BRADFORD, S. C. On the theory of gels 553
BRAHMACHARI, U. N. and SEN, P. Some observations on the haemolytic action of certain quinine salts on the erythrocytes of different individuals and on the resistance of newly formed red corpuscles to haemolysis under the influence of distilled water 463
Bran, wheat, as a source of vitamins A and B (Stammers) 489
Buffer solutions, action of salts and non-electrolytes upon (Haynes) 440
BUSTON, H. W. and SCHRYVER, S. B. A method for the separation of amino-acids from the products of hydrolysis of proteins and other sources. (Preliminary communication) 636
Butter, factors influencing value of, as source of vitamin A (Drummond, Coward and Watson) 540

Calcium, excretion of, influence of free fatty acids in intestinal contents on (Telfer) 347
Calcium oxalate, precipitated, microscopic appearance and opacity of suspensions of (Holker) 232
CAMPBELL, J. A. and WEBSTER, T. A. Day and night urine during complete rest, laboratory routine, light muscular work and oxygen administration 660
Carbohydrate, interconversion of, and lactic acid in muscle (Foster and Moyle) 672
Carbon monoxide, production of, from urea (Hurtley) 11
Carnosine, colorimetric estimation of (Clifford) 400
Carnosine, distribution of, in animal kingdom (Clifford) 725
Carnosine, estimation of, in muscle extract (Hunter) 689
Carrageen, occurrence of ethereal sulphates in (Haas) 469
Caseinogen, digestion of, by trypsin (Edie) 498
Cell, autoxidisable constituent of (Hopkins) 286
Cellular multiplication (Robertson) 595, 612
Cell-walls of plants, chemistry of (Clayson, Norris and Schryver) 643
CHIBNALL, A. C. and SCHRYVER, S. B. Investigations on the nitrogenous metabolism of the higher plants. Part I. The isolation of proteins from leaves 60
Choleic acid in a human enterolith (Raper) 49
Cholesterol, estimation of, colorimetric, in tissue fats, source of error in (Gardner and Fox) 376
Cholesterol, estimation of, critical study of methods of (Gardner and Williams) 363
Chondrus crispus, occurrence of ethereal sulphates in (Haas) 469
CLARK, A. B. *see* RAISTRICK, H.
CLAYSON, D. H. F., NORRIS, F. W. and SCHRYVER, S. B. The pectic substances of plants. Part II. A preliminary investigation of the chemistry of the cell-walls of plants 643

CLIFFORD, W. M. A method for the colorimetric estimation of carnosine 400
CLIFFORD, W. M. The distribution of carnosine in the animal kingdom 725
Coagulation of blood, physico-chemical aspects of (Pickering and Hewitt) 710
Coagulation of fibrinogen, action of sodium hydroxide on (Barratt) 4
COMPTON, A. Blood enzymes. I. On the occurrence of maltase in mammalian blood 681
COOPER, E. A. Denitrification as a means of sewage purification 513
COOPER, E. A. and WALKER, H. The nature of the reducing substance in human blood 415
COOPER, E. A. *see also* MORGAN, G. T.
Corpuscles, red, permeability of, for amino-acids (Kozawa and Miyamoto) 167
Corpuscles, red, relation between number and size of, and opacity of their suspensions (Holker) 226
Corpuscles, red, resistance of newly formed, to haemolysis by water (Brahmachari and Sen) 463
Cotton, deterioration of, on wet storage (Fleming and Thaysen) 407
Cow; serum, colostrum and milk of, investigation of proteins of, by racemisation method (Woodman) 187
COWARD, K. H. and DRUMMOND, J. C. The formation of vitamin A in living plant tissues 530
COWARD, K. H. *see also* DRUMMOND, J. C.; ZILVA, S. S.
Creatinine, influence of nervous system on excretion of (Weinberg) 306

DAVEY, A. J. Determination of the minimum doses of some fresh citrus fruit juices which will protect a guinea-pig from scurvy, together with some observations on the preservation of such juices 83
Denitrification as a means of sewage purification (Cooper) 513
Dialysis, differential, of antineuritic and anti-scorbutic factors (Zilva and Miura) 422
Diet deficient in animal fat, effect on bone tissue of kittens of (Tozer) 28
Diet deficient in animal fat, effect on kittens of (MacKay) 19
Diet, effect of, on mammary secretion (Hartwell) 140
Diffusion of sodium chloride, coefficient of, influence of concentration of gel on (Stiles and Adair) 620
Diffusion of sulphates in gels (Stiles) 629
DRUMMOND, J. C., COWARD, K. H. and WATSON, A. F. Researches on vitamin A. VII. Notes on the factors influencing the value of milk and butter as sources of vitamin A 540
DRUMMOND, J. C. *see also* COWARD, K. H.; ZILVA, S. S.
DUDLEY, H. W. and EVANS, C. L. A method for the preparation and recrystallisation of oxyhaemoglobin 487

EDIE, E. S. Further observations on the digestion of fibrin and caseinogen by trypsin 498
EDIE, E. S. A note on the question of the identity of gastric rennin and pepsin 507
Electrical resistance, specific, of frog's muscle (Hartree and Hill) 379
Electrolytes, amphoteric, action of salts and non-electrolytes upon (Haynes) 440
Enterolith, human, containing choleic acid (Raper) 49
Enzymes, oxidising, distribution of, among higher plants (Onslow, M. W.) 107
Enzymes, oxidising, of fruits (Onslow, M. W.) 113
EVANS, C. L. *see* DUDLEY, H. W.
Excretion of calcium and phosphorus, influence of free fatty acids in intestinal contents on (Telfer) 347

Faeces, human, unsaponifiable matter of ether extract of (Gardner) 244
Fat, animal, effect on bone tissue of kittens of a diet deficient in (Tozer) 28
Fat, animal, effect on kittens of a diet deficient in (MacKay) 19
Fat-soluble factor, quantitative estimation of (Zilva and Miura) 654
Fat-soluble factor, relation of, to rickets and growth in pigs (Zilva, Golding, Drummond and Coward) 427
Fatty acids, free, in intestinal contents, influence of, on excretion of calcium and phosphorus (Telfer) 347
Fermentation, alcoholic, salt effect in (Harden and Henley) 312
Fermentation of glucose and fructose by yeast-juice and zymin, effect of acetaldehyde and methylene blue on, in presence of phosphate and arsenate (Harden and Henley) 175
Fibrin, digestion of, by trypsin (Edie) 498
Fibrinogen, coagulation of, action of sodium hydroxide on (Barratt) 4
FINDLAY, G. M. Glyoxalase in avian beriberi 104
FINDLAY, G. M. The effects of an unbalanced diet in the production of guinea-pig scurvy 355
FLEMING, N. and THAYSEN, A. C. On the deterioration of cotton on wet storage 407
Foodstuffs, natural, growth-promoting properties of, for guinea-pigs (Hume) 30
FOSTER, D. L. and MOYLE, D. M. The effect of exposure to low temperatures on some physiological, chemical and physical properties of amphibian muscle 334
FOSTER, D. L. and MOYLE, D. M. A contribution to the study of the interconversion of carbohydrate and lactic acid in muscle 672
FOX, F. W. *see* GARDNER, J. A.
Fruit juices, citrus, minimum protective dose of, against scurvy, for guinea-pigs (Davey) 83
Fruit juices, citrus, preservation of (Davey) 83
Fruit juices, concentrated, antiscorbutic properties of (Harden and Robison) 521
Fruits, oxidising enzymes of (Onslow, M. W.) 113

GARDNER, J. A. On the composition of the unsaponifiable matter of the ether extract of human faeces 244
GARDNER, J. A. and FOX, F. W. Note on a source of error in the colorimetric methods

for the estimation of cholesterol in tissue fats 376
GARDNER, J. A. and WILLIAMS, M. A critical study of the methods of estimating cholesterol and allied substances 363
Gel, concentration of, influence on coefficient of diffusion of sodium chloride (Stiles and Adair) 620
Gelatin, dynamics of formation of, from ossein (Manning and Schryver) 523
Gels, diffusion of sulphates in (Stiles) 629
Gels, penetration of electrolytes into (Stiles) 629
Gels, penetration of electrolytes into (Stiles and Adair) 620
Gels, theory of (Bradford) 553
Glyoxalase, in avian beriberi (Findlay) 104
GOLDING, J. *see* ZILVA, S. S.
GOODSON, J. A. Constituents of the bark of *Zanthoxylum macrophyllum*, Oliver 123
Growth of pigs, relation of fat-soluble factor to (Zilva, Golding, Drummond and Coward) 427
Growth-promoting properties for guinea-pigs of natural foodstuffs (Hume) 30
GUY, R. A. Note on the limitations of the modified Lewis-Benedict method of blood sugar estimation 575

HAAS, P. On carrageen (*Chondrus crispus*). II. On the occurrence of ethereal sulphates in the plant 469
Haemoglobin, combinations of, with oxygen and carbon monoxide, and the effects of acid and carbon dioxide (Hill) 577
HARDEN, A. and HENLEY, F. R. The effect of acetaldehyde and methylene blue on the fermentation of glucose and fructose by yeast-juice and zymin in presence of phosphate and arsenate 175
HARDEN, A. and HENLEY, F. R. The salt effect in alcoholic fermentation 312
HARDEN, A. and ROBISON, R. The anti-scorbutic properties of concentrated fruit juices. Part IV 521
HARDEN, A. and ZILVA, S. S. The synthesis of vitamin B by yeasts. (Preliminary note) 438
HARINGTON, C. R. A note on the physiology of the ship-worm (*Teredo norvegica*) 736
HARTREE, W. and HILL, A. V. The specific electrical resistance of frog's muscle 379
HARTWELL, G. A. The effect of diet on mammary secretion 140
HARTWELL, G. A. Excess protein and mammary secretion 563
HAYNES, D. The action of salts and non-electrolytes upon buffer solutions and amphoteric electrolytes and the relation of these effects to the permeability of the cell 440
HENLEY, F. R. *see* HARDEN, A.
HEWITT, J. A. and SOUZA, D. H. DE. The metabolism of carbohydrates. Part II. On the possible occurrence of stereochemical changes in equilibrated solutions of reducing sugars introduced into the circulation 667
HEWITT, J. A. and STEABBEN, D. B. Note on the fermentation of *i*-inositol 665
HEWITT, J. A. *see also* PICKERING, J. W.
HILL, A. V. The combinations of haemoglobin with oxygen and carbon monoxide, and the effects of acid and carbon dioxide 577
HILL, A. V. *see also* HARTREE, W.
HOLKER, J. Methods of measuring the opacity of liquids 216
HOLKER, J. The relation between the number and size of red corpuscles and the opacity of their suspensions 226
HOLKER, J. The relation between the microscopic appearance of precipitated calcium oxalate and the opacity of its suspensions 232
HOLKER, J. The opacity of serum diluted with distilled water, physiologically normal saline, and Ringer's solution 238
HOPKINS, F. G. On an autoxidisable constituent of the cell 286
HOWIE, L. *see* PONDER, E.
HUME, E. M. Comparison of the growth-promoting properties for guinea-pigs of certain diets, consisting of natural foodstuffs 30
HUME, E. M. Investigation of the anti-scorbutic value of full cream sweetened condensed milk by experiments with monkeys 163
HUNTER, G. The estimation of carnosine in muscle extract. (Preliminary note) 689
HURTLEY, W. H. The production of carbon monoxide by the action of alkaline hypohalogenites on urea 11

Infusoria, isolated, multiplication of (Robertson) 595
Infusoria, reproductive rate of, influence of mutual contiguity on (Robertson) 612
Inositol, fermentation of (Hewitt and Steabben) 665
Iodine values, abnormal (Smedley MacLean and Thomas) 319

JAMESON, A. P. and ATKINS, W. R. G. On the physiology of the silkworm 209
JEPHCOTT, H. and BACHARACH, A. L. The anti-scorbutic value of dried milk 129

KENNAWAY, E. L. The estimation of non-protein nitrogen in blood by a micro-Kjeldahl method 510
KING, H. *see* ACTON, H. W.
KOZAWA, S. and MIYAMOTO, N. Note on the permeability of the red corpuscles for amino-acids 167

Lactic acid, interconversion of, and carbohydrate in muscle (Foster and Moyle) 672
Leaves, isolation of proteins from (Chibnall and Schryver) 60
LING, A. R. and NANJI, D. R. A method of estimating phenylhydrazine volumetrically and its application to the estimation of pentosans and pentoses 466

MACKAY, H. M. M. The effect on kittens of a diet deficient in animal fat 19
MACLEAN, I. *see* SMEDLEY MACLEAN, I.
Maltase, occurrence of, in mammalian blood (Compton) 681
Mammary secretion and excess protein (Hartwell) 563

Mammary secretion, effect of diet on (Hartwell) 140
Manning, A. B. and Schryver, S. B. Studies on gelatin. Part I. The dynamics of the formation of gelatin from ossein 523
Mattick, E. C. V. and Williams, R. S. The influence of reaction on colour changes in tryptophan solutions 213
Melanin, extraction of, from skin with dilute alkali (Young) 118
Metabolism, nitrogenous, of the higher plants (Chibnall and Schryver) 60
Methylene blue, effect of, on fermentation of glucose and fructose in presence of phosphate and arsenate (Harden and Henley) 175
Milk, condensed, full cream sweetened, antiscorbutic value of, for monkeys (Hume) 163
Milk, cow's, raw, combined action of, with orange-juice as antiscorbutic (Wright) 695
Milk, dried, antiscorbutic value of (Jephcott and Bacharach) 129
Milk, factors influencing value of, as source of vitamin A (Drummond, Coward and Watson) 540
Milk fat, origin of, and relation of, to metabolism of phosphorus (Sheehy) 703
Miura, M. *see* Zilva, S. S.
Miyamoto, N. *see* Kozawa, S.
Morgan, G. T. and Cooper, E. A. The bactericidal action of the quinones and allied compounds 587
Moyle, D. M. *see* Foster, D. L.
Mukai, G. A method of protein removal from body fluids for the purpose of simultaneous determination of many constituents 516
Muscle, amphibian, effect of exposure to low temperature on properties of (Foster and Moyle) 334
Muscle, amphibian, oxygen consumption of (Adam) 358
Muscle, frog's, specific electrical resistance of (Hartree and Hill) 379
Muscle, interconversion of carbohydrate and lactic acid in (Foster and Moyle) 672

Nanji, D. R. *see* Ling, A. R.
Nephelometric estimation of quinine in blood (Acton and King) 53
Nerve, amphibian, oxygen consumption of (Adam) 358
Nitrogen, non-protein, in blood, micro-estimation of (Kennaway) 510
Norris, F. W. *see* Clayson, D. H. F.

Oak, "fumed" and natural brown (Tinkler) 477
Onslow, H. On the stability of tryptophan in baryta hydrolysis 383
Onslow, H. On the nature of the substances precipitated by mercuric sulphate from hydrolysed caseinogen, with reference to the estimation and isolation of tryptophan 392
Onslow, M. W. Oxidising enzymes. IV. The distribution of oxidising enzymes among the higher plants 107
Onslow, M. W. Oxidising enzymes. V. Further observations on the oxidising enzymes of fruits 113
Opacity and microscopic appearance of precipitated calcium oxalate (Holker) 232
Opacity of diluted serum (Holker) 238
Opacity of liquids, methods of measuring (Holker) 216
Opacity of suspensions of red corpuscles (Holker) 226
Orange-juice, combined action of, with milk as antiscorbutic (Wright) 695
Ossein, dynamics of formation of gelatin from (Manning and Schryver) 523
Ox serum, investigation of proteins of, by racemisation method (Woodman) 187
Oxygen consumption of amphibian muscle and nerve (Adam) 358
Oxyhaemoglobin, preparation and recrystallisation of (Dudley and Evans) 487

Palm kernel oil, steam distilled, value of, as a control fat (Stammers) 489
Parsons, T. R. On the theory of the Barcroft differential blood-gas apparatus 202
Pectase, action of, on pectin (Tutin) 494
Pectic substances of plants (Clayson, Norris and Schryver) 643
Pectin, behaviour of, towards alkalis and pectase (Tutin) 494
Pentosans, estimation of (Ling and Nanji) 466
Pentoses, estimation of (Ling and Nanji) 466
Pepsin and gastric rennin, question of identity of (Edie) 507
Permeability of the cell in relation to action of salts and non-electrolytes upon buffer solutions and amphoteric electrolytes (Haynes) 440
Phenylhydrazine, estimation of, volumetrically (Ling and Nanji) 466
Phosphorus, excretion of, influence of free fatty acids in intestinal contents on (Telfer) 347
Phosphorus metabolism, relation of milk fat to (Sheehy) 703
Pickering, J. W. and Hewitt, J. A. Studies of the coagulation of the blood. Part I. Some physico-chemical aspects of coagulation 710
Pickering, P. S. U. Obituary notice of 1
Plants, cell-walls of, chemistry of (Clayson, Norris and Schryver) 643
Plants, pectic substances of (Clayson, Norris and Schryver) 643
Ponder, E. and Howie, L. The estimation of blood sugar 171
Protein, excess, and mammary secretion (Hartwell) 563
Protein, removal of, from body fluids for analytical purposes (Mukai) 516
Proteins, from cow and ox, investigation of, by racemisation method (Woodman) 187
Proteins, hydrolysis of, separation of amino-acids from products of (Buston and Schryver) 636
Proteins, isolation of, from leaves (Chibnall and Schryver) 60

Quinine, nephelometric estimation of, in blood (Acton and King) 53
Quinine salts, haemolytic action of (Brahmachari and Sen) 463

Quinones, bactericidal action of (Morgan and Cooper) 587

Racemisation, investigation of proteins from cow and ox, by method of (Woodman) 187
Raistrick, H. and Clark, A. B. Studies on the cycloclastic power of bacteria. Part II. A quantitative study of the aerobic decomposition of tryptophan and tyrosine by bacteria 76
Raper, H. S. A human enterolith containing cholcic acid 49
Ray, C. B. *see* Shorten, J. A.
Rennin, gastric, and pepsin, question of identity of (Edie) 507
Resins, iodine values of, abnormal (Smedley MacLean and Thomas) 319
Rickets in pigs, relation of, to fat-soluble factor (Zilva, Golding, Drummond and Coward) 427
Roaf, H. E. Urochrome as a derivative of chlorophyll 687
Robertson, T. B. Experimental studies on cellular multiplication. I. The multiplication of isolated infusoria 595
Robertson, T. B. Experimental studies on cellular multiplication. II. The influence of mutual contiguity upon reproductive rate and the part played therein by the "X-substance" in bacterised infusions which stimulates the multiplication of infusoria 612
Robison, R. *see* Harden, A.

Salt effect in alcoholic fermentation (Harden and Henley) 312
Schryver, S. B. *see* Buston, H. W.; Chibnall, A. C.; Clayson, D. H. F.; Manning, A. B.
Scurvy, guinea-pig, effects of unbalanced diet in production of (Findlay) 355
Scurvy, minimum dose of citrus fruit juices for protection of guinea-pig from (Davey) 83
Sen, P. *see* Brahmachari, U. N.
Serum, diluted with various solutions, opacity of (Holker) 238
Sewage purification by denitrification (Cooper) 513
Sheehy, E. J. The origin of milk fat, and its relation to the metabolism of phosphorus 703
Ship-worm, the, physiology of (Harington) 736
Shorten, J. A. and Ray, C. B. The antiscorbutic and antiberiberi properties of certain sun-dried vegetables 274
Silkworm, physiology of (Jameson and Atkins) 209
Skin, melanin of, extraction by dilute alkali (Young) 118
Smedley MacLean, I. and Thomas, E. M. Observations on abnormal iodine values, with special reference to the sterols and resins 319
Souza, D. H. de *see* Hewitt, J. A.
Stammers, A. D. Feeding experiments in connection with vitamins A and B: (I) the value of steam-distilled palm kernel oil as a control fat. (II) Wheat bran as a source of vitamins A and B 489
Steabben, D. B. *see* Hewitt, J. A.
Sterols, iodine values of, abnormal (Smedley MacLean and Thomas) 319
Stiles, W. The penetration of electrolytes into gels. IV. The diffusion of sulphates in gels 629
Stiles, W. and Adair, G. S. The penetration of electrolytes into gels. III. The influence of the concentration of the gel on the coefficient of diffusion of sodium chloride 620
Sugar, blood, estimation of (Ponder and Howie) 171
Sugar, blood, Lewis-Benedict method of estimation of (Guy) 575
Sugars, reducing, introduced into the circulation, possible occurrence of stereochemical changes in (Hewitt and de Souza) 667

Telfer, S. V. The influence of free fatty acids in the intestinal contents on the excretion of calcium and phosphorus 347
Teredo norvegica, physiology of (Harington) 736
Thaysen, A. C. *see* Fleming, N.
Thomas, E. M. *see* Smedley MacLean, I.
Tinkler, C. R. "Fumed" oak and natural brown oak 477
Tozer, F. M. The effect of a diet deficient in animal fat on the bone tissue (rib junctions) of kittens 28
Trypsin, digestion of fibrin and caseinogen by (Edie) 498
Tryptophan, aerobic decomposition of, by bacteria (Raistrick and Clark) 76
Tryptophan, conditions for estimation and isolation of, from hydrolysed caseinogen (Onslow, H.) 392
Tryptophan, influence of reaction on colour changes in solutions of (Mattick and Williams) 213
Tryptophan, stability of, in baryta hydrolysis (Onslow, H.) 383
Tutin, F. The behaviour of pectin towards alkalis and pectase 494
Tyrosine, aerobic decomposition of, by bacteria (Raistrick and Clark) 76

Unsaponifiable matter of ether extract of human faeces (Gardner) 244
Urea, carbon monoxide produced from, by action of alkaline hypohalogenites (Hurtley) 11
Urine, day and night, under varying conditions of rest and work (Campbell and Webster) 660
Urochrome, as a derivative of chlorophyll (Roaf) 687

Vegetables, sun-dried, antiscorbutic and antiberiberi properties of (Shorten and Ray) 274
Vitamin A, factors influencing value of butter and milk as sources of (Drummond, Coward and Watson) 540
Vitamin A, formation of in living plant tissues (Coward and Drummond) 530
Vitamin B, synthesis of, by yeasts (Harden and Zilva) 438
Vitamins A and B, wheat bran as a source of (Stammers) 489

Walker, H. *see* Cooper, E. A.
Watson, A. F. *see* Drummond, J. C.

WEBSTER, T. A. *see* CAMPBELL, J. A.
WEINBERG, A. A. The influence of the nervous system on the excretion of creatinine. Experiments on nervous and mental patients 306
WILLIAMS, M. *see* GARDNER, J. A.
WILLIAMS, R. S. *see* MATTICK, E. C. V.
WOODMAN, H. E. A comparative investigation of the corresponding proteins of cow and ox serum, cow's colostrum and cow's milk by the method of protein racemisation 187
WRIGHT, S. A study of the combined action of raw cow's milk and orange-juice as anti-scorbutic substances 695

X-substance in bacterised infusions, which stimulates the multiplication of infusoria (Robertson) 612

Yeasts, synthesis of vitamin B by (Harden and Zilva) 438
YOUNG, W. J. The extraction of melanin from skin with dilute alkali 118

Zanthoxylum macrophyllum, constituents of bark of (Goodson) 123
ZILVA, S. S. and MIURA, M. The differentia dialysis of the antineuritic and the anti-scorbutic factors 422
ZILVA, S. S. and MIURA, M. The quantitative estimation of the fat-soluble factor 654
ZILVA, S. S., GOLDING, J., DRUMMOND, J. C. and COWARD, K. H. The relation of the fat-soluble factor to rickets and growth in pigs 427
ZILVA, S. S. *see also* HARDEN, A.

PRINTED IN ENGLAND BY J. B. PEACE, M.A. AT THE CAMBRIDGE UNIVERSITY PRESS